## AMENDMENTS TO THE CLAIMS

Claims 1-38: canceled

39. (New)      A system for controlling production of a package for enclosing at least one object, comprising:

a server, comprising:

input means for receiving package design criteria from a remote client device over a communications network;

a processor for:

generating simulation data based at least in part on the package design criteria, the simulation data including instructions for rendering a simulated image of the package; and

generating control data based at least in part on the package design criteria; and

output means for communicating the simulation data to the remote client device over the communications network, and for communicating the control data to a control unit associated with a fabrication device, the control data comprising instructions that cause the fabrication device to automatically produce at least part of the package.

40. (New)    The system of Claim 39, wherein the server is remote with respect to the fabrication device, and the output means is further for communicating the control data to the control unit associated with the fabrication device over the communications network.

41. (New)    The system of Claim 39, wherein the package design criteria include at least one of the following parameters: number of objects to be packaged, dimensions of each object, shape of each object, arrangement of objects, package type, package dimensions, and package graphics.

42. (New)    The system of Claim 39, wherein the communications network is the Internet.

43. (New)    The system of Claim 39, wherein the control data comprises instructions that cause the fabrication device to automatically produce at least part of the package by performing at least one of the following actions: printing at least one carton board, cutting the at least one carton board into at least one blank, erecting a carton from the at least one blank, loading the carton with the at least one object, and closing the package.

44. (New)    The system of Claim 39, wherein the server further comprises a storage device for storing at least one of the package design criteria and the control data.

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45. (New)    The system of Claim 39, wherein the at least one object comprises a plurality of differently-shaped objects.

46. (New)    The system of Claim 39, wherein the fabrication device comprises at least one of the following: means for cutting a package blank, means for printing on a package blank, means for erecting a carton, means for loading a carton, and means for closing a package.

47. (New)    A system for designing and producing a package, comprising:

a client device, comprising:

input means for receiving user selections of package design criteria, and for receiving simulation data from a remote server over a communications network;

output means for communicating the package design criteria to the remote server over the communications network, the remote server being for:

generating simulation data based at least in part on the package design criteria and communicating the simulation data to the client device; and

generating control data based at least in part on the package design criteria and the communicating the control data to a control unit associated with a fabrication device, the control data comprising instructions that cause the fabrication device to automatically produce at least part of the package;

a client processor for rendering a simulated image of the package based at least in part on the simulation data; and

display means for rendering the simulation in a graphical format viewable by the user.

48. (New)    The system of Claim 47, wherein the output means is further for communicating the package design criteria in response to a command received from the user.

49. (New)    The system of Claim 47, wherein the fabrication device is remote with respect to the server, and the output means is further for communicating the control data to the control unit associated with the fabrication device over the communications network.

50. (New)    The system of Claim 47, wherein the package design criteria include at least one of the following parameters: number of objects to be packaged, dimensions of each object, shape of each object, arrangement of objects, package type, package dimensions, and package graphics.

51. (New)    The system of Claim 47, wherein the communications network is the Internet.

52. (New)    The system of Claim 47, wherein the control data comprises instructions that program the fabrication device to automatically produce at least part of the package by performing at least one of the following steps: printing at least one carton board, cutting the at least one carton board into at least one blank, erecting a carton from the at least one blank, loading the carton to form the package, and closing the package.

53. (New)    The system of Claim 47, wherein the server further comprises a storage device for storing at least one of the package design criteria and the control data.

54. (New)    The system of Claim 47, wherein the at least one object comprises a plurality of differently-shaped objects.

55. (New)    The system of Claim 47, wherein the fabrication device comprises at least one of the following: means for cutting a package blank, means for printing on a package blank, means for erecting a carton, means for loading a carton, and means for closing a package.

56. (New)    A computer readable medium having stored thereon executable code which causes a server to perform a method for controlling production of a package, the method comprising:

receiving package design criteria from a remote client device over a communications network;

generating simulation data based at least in part on the package design criteria, the simulation data including instructions for rendering a simulated image of the package;

generating control data based at least in part on the package design criteria; and

communicating the control data to a control unit associated with a remote fabrication device, the control data comprising instructions that cause the fabrication device to automatically produce at least part of the package.


57. (New)    The computer readable medium of Claim 56, wherein receiving package design criteria comprises receiving at least one of the following parameters: number of objects to be packaged, dimensions of each object, shape of each object, arrangement of objects, package type, package dimensions, and package graphics.


58. (New)    The computer readable medium of Claim 56, wherein receiving package design criteria from a remote client device over a communications network comprises receiving package design criteria over the Internet.

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59. (New)    The computer readable medium of Claim 56, wherein communicating the
control data comprises communicating instructions that cause the fabrication device to
automatically produce the package by performing at least one of the following actions: printing
at least one carton board, cutting the at least one carton board into at least one blank, erecting a
carton from the at least one blank, loading the carton to form the package, and closing the
package.

60. (New)    The computer readable medium of Claim 56, wherein the method further
comprises storing at least one of the package design criteria and the control data.

61. (New)    A computer readable medium having stored thereon executable code

which causes a client processor to perform a method for designing and producing a package, the

method comprising:

    receiving user selections of package design criteria;

    communicating the package design criteria to a remote server over a

communications network, the remote server being for:

        generating simulation data based at least in part on the package design

criteria and communicating the simulation data to the client processor; and

        generating control data based at least in part on the package design criteria

and communicating the control data to a control unit associated with a fabrication

device, the control data comprising instructions that cause the fabrication device

to automatically produce at least part of the package; and

    rendering a simulated image of the package based at least in part on the

simulation data.


62. (New)    The computer readable medium of Claim 61, wherein the method further

comprises communicating the package design criteria in response to a command received from

the user.

63. (New)      The computer readable medium of Claim 61, wherein receiving user

selection of the package design criteria includes receiving at least one of the following

parameters: number of objects to be packaged, dimensions of each object, shape of each object,

arrangement of objects, package type, package dimensions, and package graphics.

64. (New)      The system of Claim 61, wherein communicating the package design

criteria over a communications network comprises communicating over the Internet.

65. (New)      The system of Claim 61, wherein generating the control data comprises

generating instructions that program the fabrication device to automatically produce at least part

of the package by performing at least one of the following steps: printing at least one carton

board, cutting the at least one carton board into at least one blank, erecting a carton from the at

least one blank, loading the carton to form the package, and closing the package.